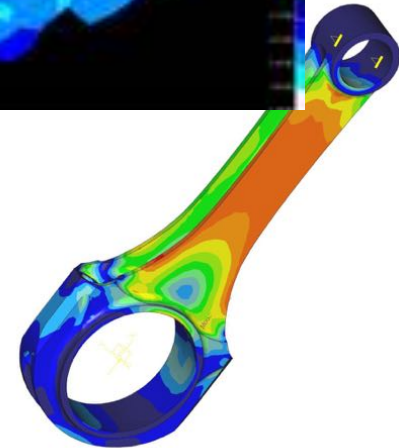
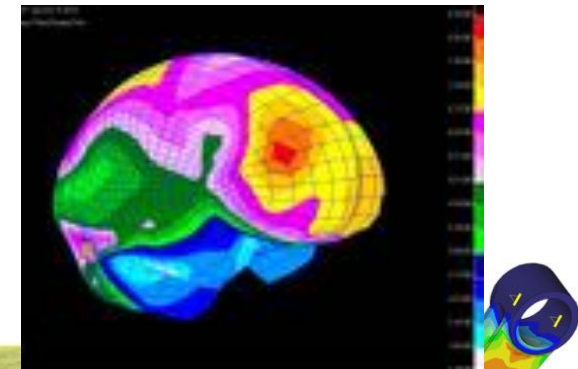




Mechanical Engineering

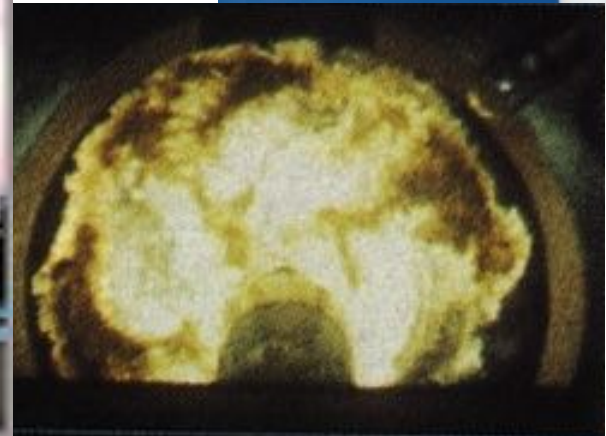
Dr. Neal Murphy

November 10th 2017



What do mechanical engineers do...?

Power generation



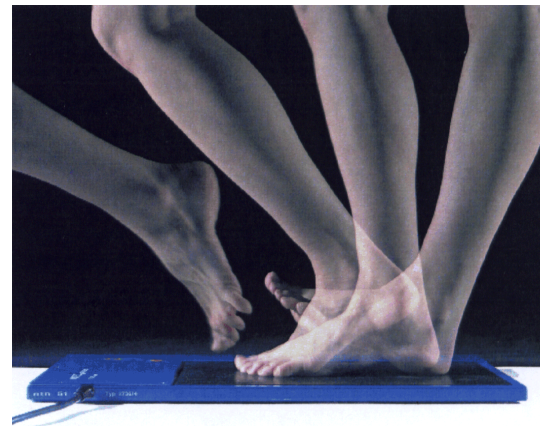
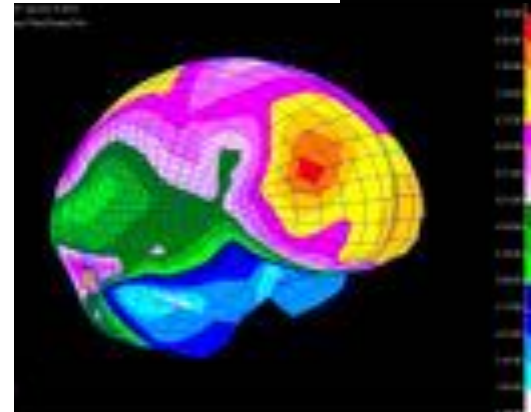
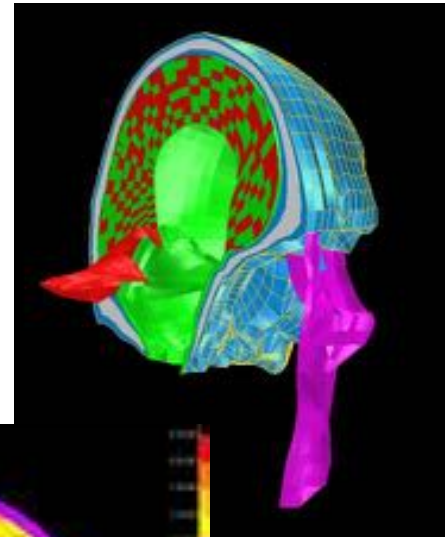
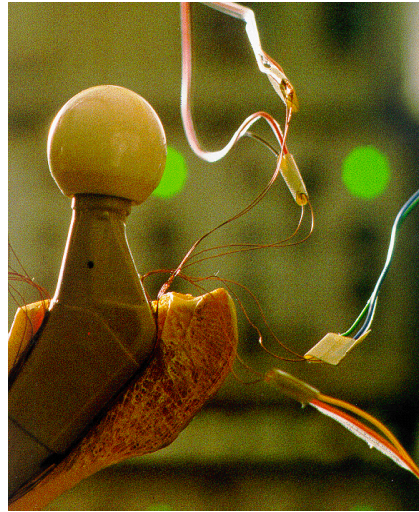
What do mechanical engineers do...?

Transport



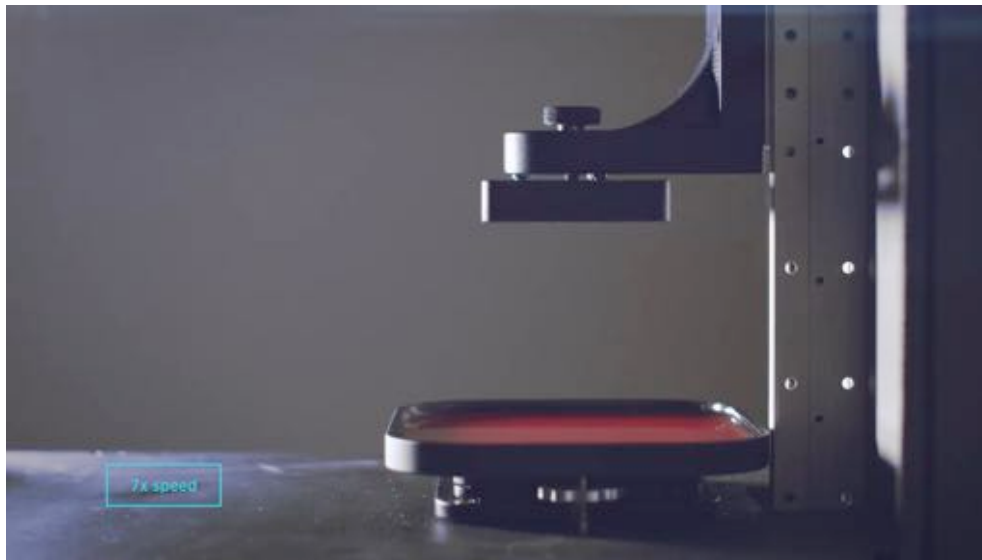
What do mechanical engineers do...?

Biomedical



What do mechanical engineers do...?

Manufacturing



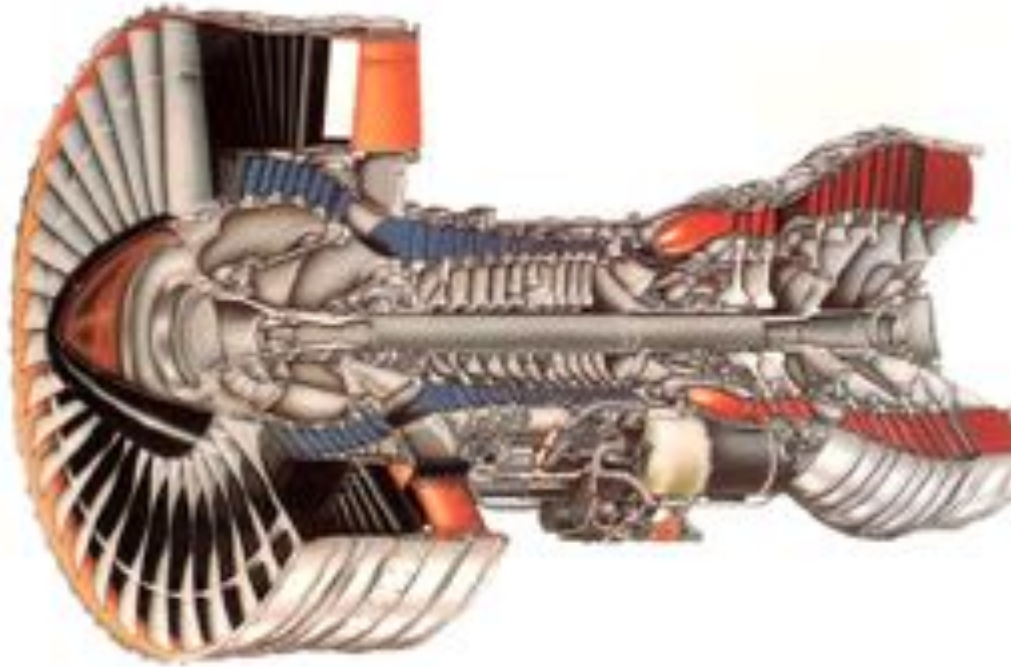
What do mechanical engineers do...?

Management



What will you study..?

Thermodynamics



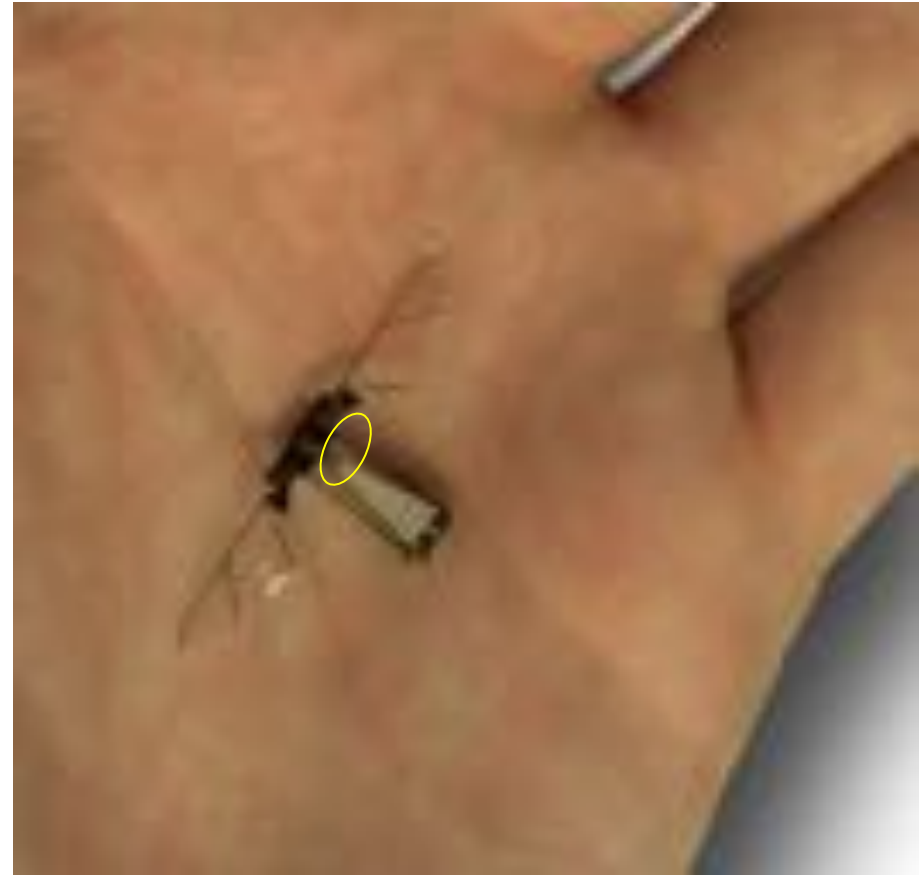
What will you study..?

Dynamics



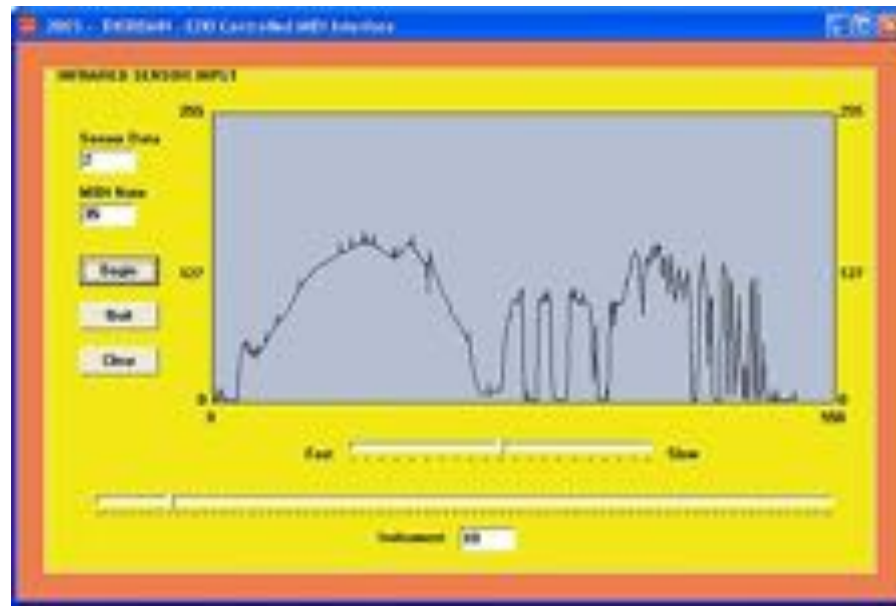
What will you study..?

Control



What will you study..?

Electrical and Electronic engineering



What will you study..?

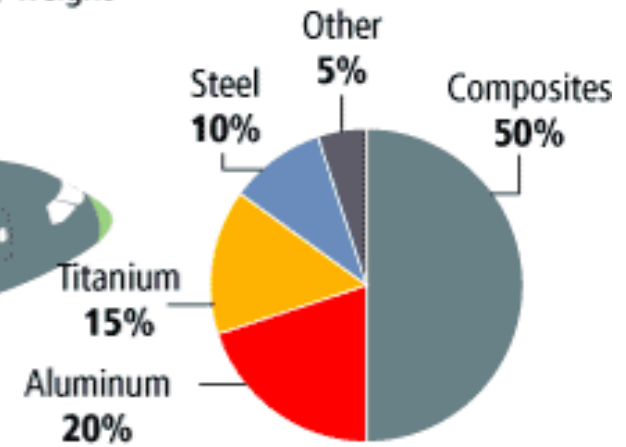
Materials

Materials used in 787 body

- Fiberglass
- Aluminum
- Carbon laminate composite
- Carbon sandwich composite
- Aluminum/steel/titanium



Total materials used By weight

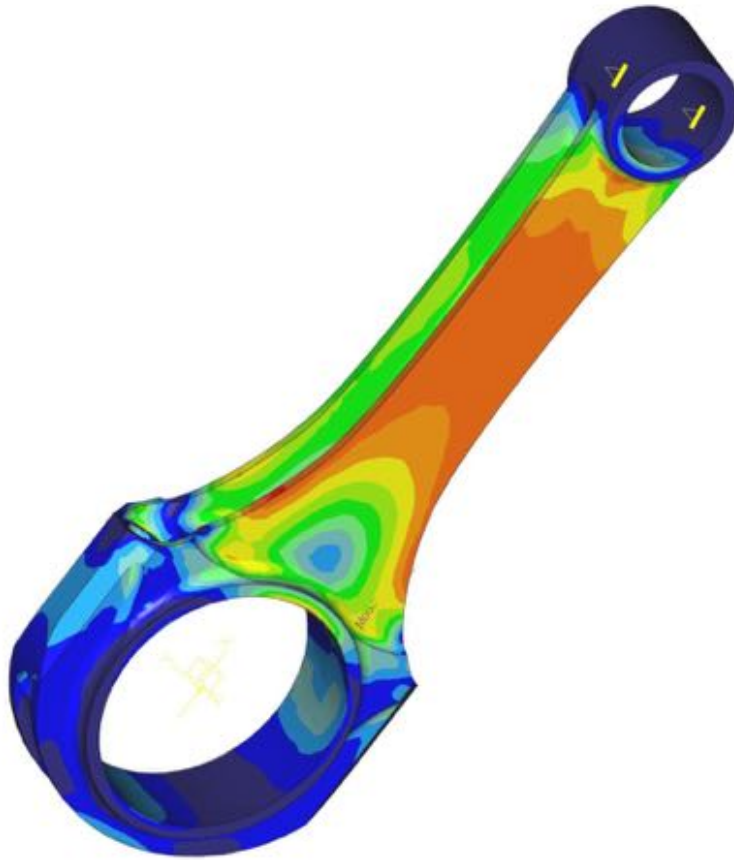


By comparison, the 777 uses 12 percent composites and 50 percent aluminum.



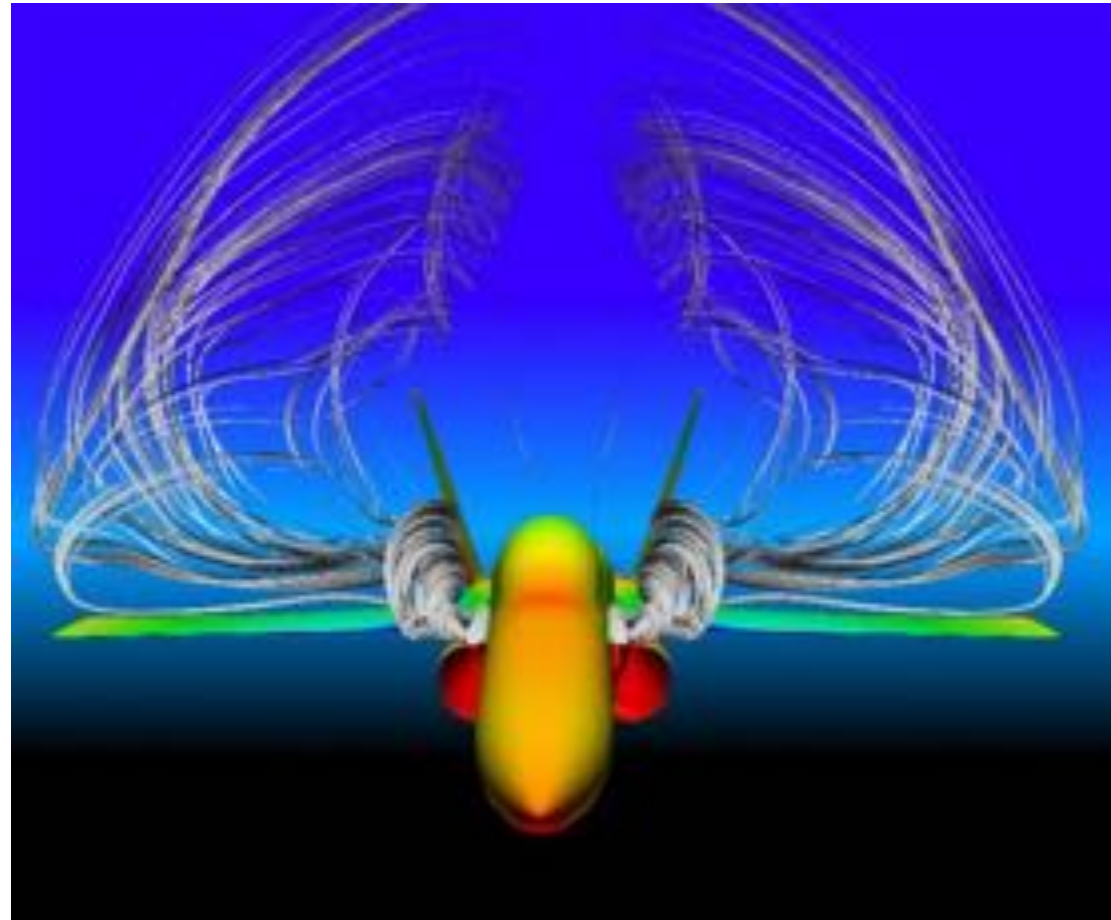
What will you study..?

Mechanics of Materials



What will you study..?

Fluid Mechanics and Heat Transfer



UCD Engineering Degree Programme Pathways

Years
2 & 3

Choose your pathway

Chemical & Bioprocess

Civil

Electrical/Electronic

Mechanical

Biomedical

Structural Engineering
with Architecture

Optional Study Abroad

Years
4 & 5

Focus on your area(s) of specialisation

BE (4 years)
Bachelor of Engineering

ME (5 years)
Master of Engineering

Graduate with
a Bachelor
of Engineering

Biomedical

Chemical & Bioprocess*

Civil

Electrical

Electronic

Energy Systems

Mechanical

**Biosystems & Food Engineering

Biomedical

Chemical & Bioprocess Engineering

Civil, Structural & Environmental

Electrical Energy

Electronic & Computer

Energy Systems

Engineering with Business

Materials Science
& Engineering

Mechanical

Structural Engineering
with Architecture

Professional Work Experience

Graduate with
a Master
of Engineering



Mechanical Engineering

Dr. Neal Murphy

November 10th 2017

